•		ATTACEMENT TO:	25X1
MENORANDUM FOR: Chief, Te	echnical Services Group	p, NPIC	
ATTENTION : Chief, To	echnical Operations St	aff, TSG/MPIC	
SUBJECT : Monthly R	Report for November 19	72	
A. SIGNIFICANT ITEMS OF I	NTEREST FOR NOVEMBER	1972:	
1. 120% Canability fo	or Zoon The	o new 15X eyepiece is	25X1A
essentially complete and d	hue to be delivered in	December. It is reported	,
to have high light transmi	ssion, flat field, lo	widistortion, and a	
field-of-view greater than	the present 10% eyep	ieces. Assembly of the	
3% objective lens is under	rway and it is due to	be delivered in early	
January.			
2. Scan & Search PI S	Station The tr	aining of IEG personnel	25X1A
and the operational testir	ng of the SSPIS was co	mpleted on 13 November 1972.	
The instrument has been to	irned over to IEG for	operational use.	
3. Automatic Focus Sy	stem, Phase II	Preliminary PI scarch	25X1A
tests on operational film	were performed		25X1A
of IEG. He has informally	reported finding con	siderable improvement of	
non-stereo scan and search	n with the automatic f	ocus breadboardhis	٠.
detailed report will be is	•		
n De	class Review by NIMA/D	OD	
			25X1A
CLASSIFIED BY EXEMPT FROM GENERAL DECLASSIFICATION SCHEDULE OF E O 11032, EXEMPTION CATEGORY: § 5B(1), (2), (3) or (4) (circle one or more) AUTOMATICALLY DECLASSIFICATION			j
AUTOMATICALLY DECLASSIFIED ON L'POSSIBLE TO DETERMINE	SECRET		
(unless impossible, insert date or event)	•	<u>L</u>	

	ATTACHMENT TO:	25X1
	SUPJECT: Monthly Report for Movember 1972	25/(1
	4. 15X Binocular Magnifier Late delivery of glass	25X1A
	blanks has extended component manufacturing to 29 Movember. An optical	
	bench test, assembly, and predelivery testing are scheduled to occur by	
	13 December.	
	5. High Canacity Processor Arrangements have been	25X1A
	made to have the dry silver High Capacity Processor tested and evaluated	
25X1	in March 1973. RED and Air Force personnel will perform pre-	2
25X1A	acceptance tests at the plant in January 1973.	
25X1	6. Stereocomparator (Production Model)	25X1A
25X1A	The fabrication is 50% complete. PHD and RED personnel visited the	
	plant on 15 November to review progress. One of the items discussed	05)///
	was a modification to introduce a projected reticle system.	25X1A
25X1A	7. Precise Mensuration, Phase III	
	is fabricating a projected reticle and an illuminated reticle	
	test fixture on which various types of projected and illuminated reticles	
	will be tested,	
25X1A	8. <u>Mapholder</u> The modified mapholder was delivered	
:	on 21 November and is undergoing operational evaluation.	
25X1A	9. ON Inspection Table Preliminary acceptance test	
	reports indicate that sturdier spindles and higher capacity switches	
	are necessary. The contractor is studying the problem.	25X1
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ATTACHMENT TO:	25X1
SUPJECT: Monthly Report for November 1972	25/(1
10. EXRAND Technical Task Team Report (C/RED/DB). The manuscript	
for the fifth annual Consolidated MSD Project List was completed the	÷
week of 20 Movember. It will be printed and distributed to the community	
by mid-December 1972,	
11. Closed Circuit TV System for IEG/PAP (RED/SAB). Purchase	
requests for equipment are being compiled and it is anticipated that	·
all orders will be placed by 3 December. ORD will lend MPIC part of	
the equipment: one TV camera and one monitor.	
12. Ground Coverage Display Phase I	25X1A
efforts have progressed to the point where it is possible to plan for	
to begin Phase II work about 1 January 1973. Completion of the	
contract should occur during the latter part of June.	
13. PI Survey Teams (RED/DB). The in-house survey of MPIC by RED	
personnel to determine interpreter's working procedures and equipment	
needs is well underway. DIA, IAS and SPAD have been interviewed, and	
IEG is scheduled next.	
14. Mensuration Parameters File The work has been	25X1A
completed by the contractor and the final report is being edited by	
PS/PMB. The results will be published as an MPIC report.	
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	25X1A
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SHPJECT: Monthly Report for Yovenber 1972	· · · · · · · · · · · · · · · · · · ·		-
			25
19. Feasibility Study for Automated Image		Eleven	25X
pieces of conventional imagery were sent	on 26 October,	These	25X
same materials are currently being digitized and	the reconstructed be available for	1-3:	25X1
	me doubt whether	•	
material will be a true simulation of the output			
20. Lenticular Rear Projection Screen	The ell		25X
master ruling for the 30" x 30" screen is schedu		•	~.
late December. It is now anticipated that deliv	very of the two	screens	
will occur early in March 1973.			
21. Wide-Field, High-Poyer, Anamorphic Ste	ercoviewer	Align-	25X
ment of the optical system is progressing well.	Resolution read	dings	25X
(end of Milestone 2 bench test) are scheduled for	or 5 and 6 Decemb	er.	
(c.m. of . Frestone 2 senest tost) and senedated fr	or o and o national		
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SUBJECT: Monthly Report for November 1972	
22. Five Year Plan (PED/SIS). TSG/RED's input for the FY-1975 -	
FY-1979 Program Plan was completed.	
23. Imagery Interpretation Research Program The PAR	25X1A
for the proposed 1973 program was completed, approved at TSG level and	
forwarded to the Planning Staff. The PI Search Training Course was	
given to four IEG PI's during November. Twelve other PI's also parti-	•
cipated in the evaluation of this new course. The final report on	٠.
this task is nearing completion and will be delivered in late December.	
24. Implementation Plan (In-House). A preliminary report	
covering the information gathered to date on Dry Silver and Dry	25X1A
Diazo Implementation Plan has been written. This report covers the	
material properties and does not address any of the other problems	
that must be resolved before these materials are put into operational	
use.	25X1A
25. Color Technology Support,	
Most of the problems related to the emulsion damage on the high	25X1A
resolution color microfilm found during processing have been eliminated,	
and the previously planned operational test will be conducted during	
the month of December.	
26. Color Training (RED/SIS). A two-hour course on the Psychophysics	
of Color Percention is nearing completion. The course is scheduled for	
presentation to groups of Center personnel in early January.	25X1A
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ATTACLE TO:	0EV1
SUBJECT: Monthly Report for November 1972	25X1
27. Marrowband Color Viewer Evaluation (MBCV) (RED/SIS). During	
the course of the evaluation of the prototype MECV, several Zoom	25X1
were tested for their ability to transmit broadband and narrowband	20/(1
illumination. Unexpectedly, large differences in their ability to trans-	
mit light have caused the further evaluation of the MBCV to be held in	
abovance until three scopes with comparable light transmittance charac-	
teristics can be located.	
28. Spectral Irradiation Produced by Flectronic Flash (RED/PB).	
Consultation services were provided to TSG/ESD and SS/SD on the measure-	
ment of spectroradiometric and related characteristics of a photographic	
strobe unit employed by the Center.	
29. FY-73 R&D Program (RED/SIS). During November the following	
items were surfaced and will affect the orderly progression of the	
FY-73 R&D program and operating budget:	
a. Very Hi Resolution Printer formerly programmed for	
January obligation will be delayed pending the results of a	25X1
project of a related nature	25X1
b. The modification of the Printer to accept uncon-	25X1A
ventional material has been tabled until the Dry Silver Processor	20/(1/
tests are complete	
c. Anticipate the need for an additional in February or	25X1
March to modify the Processor.	
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	ATTACH TENT TO:	25X1
	SUBJECT: Monthly Report for November 1972	20/(1
*	d. Will need an additional to develop Improved Fiber	25X1
	Ontics Cables for PFD. Programmed for March.	
	e. Will need an additional in December for a	25X1
25X1	15X Eyepiece for the Zoom	25X1
25X1	f. Another needed in January to fund the PI Stage Reticle.	÷
25X1	g. An additional for a follow-on to the Object Recognition	
	Guide. PAR now in process.	
25X1A	h. Another Collateral Camera Tests	·
25X1A		
	i. Phase I of the '!aterials Handling Study will expend	25X1
25X1	of the total allocation.	
	j. The Viewing Systems for Unconventional Imagery project	
	implementation will be delayed at least through January 1973.	
	k. The Conventional Exploitation Equipment project has been	
	delayed and is now programmed for April 1973.	
	1. The Synergistic Effects of IP/SLR project has been delayed	
	until June 1973.	
	m. The Simulation Model Design project funded at has	25X1
•	heen suspended.	
	30. Digital Image 'lanipulation Hardware The final	25X1A
25X1A	delivery of new hardware built	25X1A
25X1A	was made on 8 November personnel continued to debug	0EV4.0
	and test hardware components during the month.	25X1 <i>A</i>
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	ATTACHEMENT TO:	25X1
	SUBJECT: Monthly Report for Movember 1972	
	31. Analysis of Software/Hardware Twenty	25X1A
25X1A	copies of the report documenting hardware were delivered this	25X1
	month.	
	32. Photoscience Support Two work	25X1A
	orders were authorized under this program. One involved an evaluation of	
	viscous photographic developers while the other involved an investigation	
	of a special chemistry to reduce contrast in very high resolution, silver	.**
	halide film. Results of these investigations are due in early 1973.	
	33. Minimum Contact Densitometer The Center's	25X1A
	automated color densitometer was delivered and is being checked out.	-
	34. Colorinetric Image Correction (RED/RB). Project planning	
	on Colorimetric Image Correction was continued with the outlines of RED,	
	AID, and contractor support defined.	
	35. Abbreviated Color Rendering Index Standard (RED/RB). A pre-	
	liminary outline of an Abbreviated Color Rendering Index Standard for	
	microscope transmission was prepared.	
25X1A	36. Software (ORD). Two PI operational problems were pro-	
25X1A	cessed at ORD using thesoftware. Additionally, two more PI requests	
	were received in RB.	
25X1	Software (RED/RB). AID and RED/RB personnel continued	
25X1	assembling and debugging new software.	
	assumiting and somegang me	25X1A
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	ATTACH EME TO:	0EV4
	SUBJECT: Monthly Report for November 1972	25X1
	Obstance, One of the contract to the contract	
	33. DDP/TSD Support (RED/RE). A lens was tested in terms	25X1A
	of high contrast resolution for TSD. The results indicate that the	20,(1),
•	lens is inferior to existing, commercially available lenses.	
25X1A		
:		
	40. Diagnostic Computer Program Documentation has been	25X1A
25X1	received and distributed submitted a claim of	
25X1A	for time lost because of the computer	25X1A
	downtime.	
	41. Engineering Support for Target Indexing Device Cooling	25X1A
	air was supplied through back of the TID computer. Air	25X1A
	conditioning deficiency is being corrected in room 2N-147. Two doors	
	were removed from the TID; baffles and shrouds were installed to reduce	
	air turbulence.	*.
	42. Film Toaring Problem (RED/RB). A number of rolls of original	
	negative material have been torn when rapidly unwound due to points where	
	the film was stuck together. The problem appears to occur mainly in ON	
	material, especially film which has passed through liquid gate printing,	25X1A
	In a simulated test it was found that the liquid gate liquid did not	
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	ut a drop of water	caused sticking grea	it enough to result	t
in a tear. The m		f water is the compa	•	
to blow the liqui	d gate fluid from t	he film, The filter	in the air line	
probably needs re	placing with a more	sophisticated set of	of filters.	
Problems with con	taminated compresse	d air have been note	ed in other	.
parts of the Cent	or.			
B. MEETINGS, BRI	i vagas - de camicado o desendar mado como cado desenvo d			
1. Automated	Exploitation Techn	iques		
				25
7 November 1	972 to review	apabilities and to d	liscuss tentative	
areas of work und	er the proposed no-	cost RGD agreement.	Two Task Team	
		o discuss capabi		25
related M&D tasks				25
101cecu Ago casks				
2 0 - + + 1 1)	ower Spectrum.			
2. <u>Ontical P</u>	Company of the second of the company			0.5
briefed				25
briefed on	,	of the OPS contract	and areas of	25
briefed on	the current status	•	and areas of	25
briefed on	,	•	and areas of	25 25
briefed on interest for futu	re research and app	lications.		
briefed on interest for futu	re research and app	met with		25
on interest for futures. and Image Process	ORD, on 17 Noving Panel Report.	met with rember to discuss the		25
on interest for futures. and Image Process	ORD, on 17 Noving Panel Report.	met with rember to discuss the		25 25

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SHBJECT: Monthly Report for November 1972		
proposed development objective for Image Science	e Research. Also in	
attendance		25X1A
5. New Generation Microdensitometer.	represented RED	25X1A
at a series of meetings		25X1A
to assist in proposal evaluation of a new generation	ation microdensitometer	
which the Air Force is considering.		
6. Resolution Targets. briefe	d RED, APSD, and ESD per-	
sonnel on new aspects and problems of convention	nal resolution target	-
testing, and the program which he proposes to h	elp resolve these diffi-	-
culties.		
7. Offutt PI Class. br	iefed the Offutt PI Class	
on 6 November 1972, and the DIA Senior Intellig	ence Course on 13 November.	
8. Seminar.	Tutorial Seminar on	25X1A
Color Theory and Applications.		25X1A
9. TID. On 21 November		
attended a meeting to dis	cuss feasibility of using	I
TID for production use by DIA. The conclusion	was that the TID could	
not be used without extensive modification whic	th would equal cost of a	~ .
new model.		
10. TID. On 15 November, C/RB et al brief	ed on the	25X1A
TID. The TID was demonstrated in a "single sho	ot mode", where decisions	
are displayed on the panel. On 29 November DCh	n/TSG and the Special	
Assistant/TSG were given a similar demonstration	on,	25X1A
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25X1A

25X1A

25X1A

25X1A

C. D.O.'s, PECPOSALS, AND PARS 1. Advanced Photometer A proposal has been received to develop a new microscope sensor head for the previously developed parter. 2. UN State-of-the-Art Review The final report on this project was delivered during this reporting period. 3. Feature Analysis Comparison and Evaluation Library proposal for implementation of computer programs developed under DI was received. This improved program package called FACEL for Feature Analysis Comparison and Evaluation Library D. PERSONNEL	
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called FACEL for Feature Analysis Comparison and Evaluation Library D. PERSONNEL (1A	DS on the
D. PERSONNEL (1A	is
C1A C1A	•
E. SIGNIFICANT ITEMS FOR DECEMBER:	
(1A 1. Model Photography will be delivered to RB.	
2. Work will begin on the experimental outline of the Color D:	fference
Study.	
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	25)
	25)
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SUBJECT: Monthly Report	for November 1972	
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4.		work out
	ing for the OPS contract.	
5. hardware	interface for	9-track tape
deck) will be delivered		
6. TID to be not b	alled on 31 December 1972.	
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·	Dept	ity Chier
		oring Division, TSG/NPIC
Distribution: Orig & 1 - TSG/TOS 1 - TSG/RED		
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